

## Patent claims

1. A device for automatically sorting periodic data records, in particular for representing the motion of parts in the human body from individual images, characterized in that an examination monitor with a storage device for the data records is assigned a measuring and evaluation device which measures in the data records two separate points or a line of the moving part and, on the basis of their changes in distance or phase shifts, sorts the data records into a cyclic sequence.
2. The device as claimed in claim 1, characterized in that the cyclically ordered data records are combined to form a film.
3. The device as claimed in claim 1 or 2, characterized in that the waveform on which the periodicity is based can be prescribed by an input device.
4. The device as claimed in claim 3, characterized in that the waveforms comprise triangles, rectangles or sinusoidal curves.
5. The device as claimed in one of claims 1 to 4, characterized in that the data records are images recorded stroboscopically without defined frequency and phase relationships.
6. The device as claimed in one of claims 1 to 4, characterized in that the data records are individual images of X-ray pictures or of MR pictures.